

**SCOTT® Continuous Air Freshener Refill - Citrus**

KC91067

Version 1.1      Revision Date: 12-08-2015      MSDS Number: 100000003296      Date of last issue: 10-29-2015  
Date of first issue: 10-29-2015

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**SECTION 1. IDENTIFICATION**

Product name : SCOTT® Continuous Air Freshener Refill - Citrus  
Product code : 91067

**Manufacturer or supplier's details**

Company name of supplier : Kimberly-Clark Corporation  
Address : 1400 Holcomb Bridge Road,  
Roswell, GA 30076-2199  
Telephone : 1-888-346-6452  
Emergency telephone : 1-877-561-6587


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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Flammable liquids : Category 4  
Skin irritation : Category 2  
Skin sensitization : Category 1

**GHS Label element**

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H227 Combustible liquid.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. -  
No smoking.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

#### Hazardous ingredients

| Chemical Name                             | CAS-No.    | Concentration (%) |
|---|------------|-------------------|
| 3,7-dimethyloctan-3-ol                    | 78-69-3    | >= 20 - < 50      |
| decanal                                   | 112-31-2   | >= 10 - < 20      |
| Butanoic acid, 3-methyl-, ethyl ester     | 108-64-5   | >= 1 - < 10       |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 68039-49-6 | >= 1 - < 10       |
| Octanal                                   | 124-13-0   | >= 1 - < 10       |
| Citral                                    | 5392-40-5  | >= 1 - < 5        |
| citronellol                               | 106-22-9   | >= 1 - < 5        |

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### SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of vapors.  
If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and plenty of water.  
Wash contaminated clothing before re-use.  
If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed : Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Do NOT use water jet.

Specific hazards during fire : Highly flammable liquid and vapor.

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fighting

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Further information : Standard procedure for chemical fires.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Remove all sources of ignition.

Environmental precautions : Prevent product from entering drains.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : No special restrictions on storage with other products.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Hazardous components without workplace control parameters

| Ingredients                               | CAS-No.    |
|---|------------|
| 3,7-dimethyloctan-3-ol                    | 78-69-3    |
| decanal                                   | 112-31-2   |
| Butanoic acid, 3-methyl-, ethyl ester     | 108-64-5   |
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citronellol      106-22-9

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Not required under normal use.

Skin and body protection : not required under normal use

Protective measures : No special protective equipment required.

Hygiene measures : General industrial hygiene practice.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid  
Color : colorless  
Odor : pleasant  
Flash point : 63 °C  
Relative density : 0.885 - 0.889 (20 °C)

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.  
Chemical stability : No decomposition if stored and applied as directed.  
Possibility of hazardous reactions : No hazards to be specially mentioned.  
Conditions to avoid : Heat.  
Incompatible materials : Strong acids and oxidizing agents  
Hazardous decomposition products : Stable under recommended storage conditions.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4,969 mg/kg  
Method: Calculation method

### **Ingredients:**

#### **3,7-dimethyloctan-3-ol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 8,270 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

#### **Octanal:**

Acute oral toxicity : LD50 Oral (Rat, male): 4,617 mg/kg  
Method: Acute toxicity estimate  
GLP: no

Acute inhalation toxicity : LC50 (Rat, males): > 830 mg/m<sup>3</sup>  
Exposure time: 8 h  
Method: Acute toxicity estimate  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, males): 5,207 mg/kg  
Method: Acute toxicity estimate  
GLP: no

#### **Citral:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 6,800 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Moderate skin irritation

#### **Ingredients:**

##### **3,7-dimethyloctan-3-ol:**

Assessment: Irritating to skin.

##### **decanal:**

Species: Rabbit  
Result: No skin irritation

##### **Butanoic acid, 3-methyl-, ethyl ester:**

Assessment: Irritating to skin.

##### **2,4-dimethylcyclohex-3-ene-1-carbaldehyde:**

Assessment: Irritating to skin.

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### **Octanal:**

Species: Rabbit  
Method: Directive 67/548/EEC, Annex V, B.4.  
Result: Irritating to skin.  
GLP: yes

### **Citral:**

Assessment: Irritating to skin.

### **citronellol:**

Species: Rabbit  
Result: Skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### **Ingredients:**

##### **3,7-dimethyloctan-3-ol:**

Species: Rabbit  
Result: Eye irritation

##### **decanal:**

Species: Rabbit  
Result: Eye irritation

##### **2,4-dimethylcyclohex-3-ene-1-carbaldehyde:**

Assessment: Irritating to eyes.

### **Octanal:**

Species: Rabbit  
Result: Eye irritation  
Method: Directive 67/548/EEC, Annex V, B.5.  
GLP: yes

### **Citral:**

Result: Eye irritation

### **citronellol:**

Species: Rabbit  
Result: Eye irritation

### **Respiratory or skin sensitization**

#### **Ingredients:**

##### **3,7-dimethyloctan-3-ol:**

Species: Guinea pig  
Result: Did not cause sensitization on laboratory animals.

##### **decanal:**

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Species: Humans  
Result: Does not cause skin sensitization.

**2,4-dimethylcyclohex-3-ene-1-carbaldehyde:**  
Assessment: The product is a skin sensitizer, sub-category 1B.

**Octanal:**  
Test Type: Freund's complete adjuvant test  
Species: Guinea pig  
Method: No information available.  
Result: Did not cause sensitization on laboratory animals.  
GLP: No information available.

**Citral:**  
Result: The product is a skin sensitizer, sub-category 1B.

**citronellol:**  
Result: The product is a skin sensitizer, sub-category 1B.

### Carcinogenicity

**IARC**      No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**      No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**      No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Aspiration toxicity

**Product:**  
May be harmful if swallowed and enters airways.

### Further information

**Product:**  
Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Product:**  
Toxicity to fish :      Remarks: No information available.

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Toxicity to daphnia and other aquatic invertebrates : Remarks: No information available.

Toxicity to algae : Remarks: No information available.

### **Ingredients:**

#### **3,7-dimethyloctan-3-ol:**

Toxicity to fish : LC50: 8.9 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 14.2 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50: 21.6 mg/l  
Exposure time: 72 h

#### **decanal:**

Toxicity to fish : LC50: 2.1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 1.94 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50: 4.5 mg/l  
Exposure time: 72 h

Ecotoxicology Assessment  
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### **2,4-dimethylcyclohex-3-ene-1-carbaldehyde:**

Ecotoxicology Assessment  
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### **Octanal:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.54 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

#### **Citral:**

Toxicity to fish : LC50: 6.78 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6.8 mg/l



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aquatic invertebrates      Exposure time: 48 h

Toxicity to algae      : EC50: 6.8 mg/l  
Exposure time: 48 h

**citronellol:**

Toxicity to fish      : LC50: 14.66 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates      : EC50: 17.48 mg/l  
Exposure time: 48 h

Toxicity to algae      : EC50: 2.4 mg/l  
Exposure time: 72 h

### Persistence and degradability

**Product:**

Biodegradability      : Remarks: No information available.

**Ingredients:**

**3,7-dimethyloctan-3-ol:**

Biodegradability      : Result: Readily biodegradable.

**decanal:**

Biodegradability      : Result: Readily biodegradable.

**Citral:**

Biodegradability      : Result: Readily biodegradable.

**citronellol:**

Biodegradability      : Result: Readily biodegradable.

### Bioaccumulative potential

**Product:**

Bioaccumulation      : Remarks: Does not bioaccumulate.

**Ingredients:**

**3,7-dimethyloctan-3-ol:**

Partition coefficient: n-octanol/water      : log Pow: 3.6

**decanal:**

Partition coefficient: n-octanol/water      : log Pow: 3.760

**Octanal:**

Partition coefficient: n-octanol/water      : log Pow: 3.5

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### **citronellol:**

Partition coefficient: n-octanol/water : log Pow: 3.55 (25 °C)

### **Mobility in soil**

#### **Product:**

Mobility : Remarks: No information available.

### **Other adverse effects**

#### **Product:**

Results of PBT and vPvB assessment : Remarks: Based on available data, the classification criteria are not met

Additional ecological information : There is no data available for this product.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulation**

#### **IATA-DGR**

UN/ID No. : UN 1169  
Proper shipping name : EXTRACTS, AROMATIC, LIQUID  
Class : 3  
Packing group : III

#### **IMDG-Code**

UN number : UN 1169  
Proper shipping name : EXTRACTS, AROMATIC, LIQUID  
Class : 3  
Packing group : III  
Marine pollutant : no

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

### **Domestic regulation**

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### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

| Ingredients | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------|----------|--------------------|-----------------------------|
|             | 123-92-2 | 5000               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

##### US State Regulations

###### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

###### Pennsylvania Right To Know

|   |            |           |
|---|------------|-----------|
| 3,7-dimethyloctan-3-ol                    | 78-69-3    | 50 - 70 % |
| decanal                                   | 112-31-2   | 20 - 30 % |
| alkanes, C9-12-iso-                       | 90622-57-4 | 10 - 20 % |
| Butanoic acid, 3-methyl-, ethyl ester     | 108-64-5   | 10 - 20 % |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 68039-49-6 | 10 - 20 % |
| Octanal                                   | 124-13-0   | 10 - 20 % |

###### New Jersey Right To Know

|   |            |           |
|---|------------|-----------|
| 3,7-dimethyloctan-3-ol                    | 78-69-3    | 50 - 70 % |
| decanal                                   | 112-31-2   | 20 - 30 % |
| alkanes, C9-12-iso-                       | 90622-57-4 | 10 - 20 % |
| Butanoic acid, 3-methyl-, ethyl ester     | 108-64-5   | 10 - 20 % |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 68039-49-6 | 10 - 20 % |

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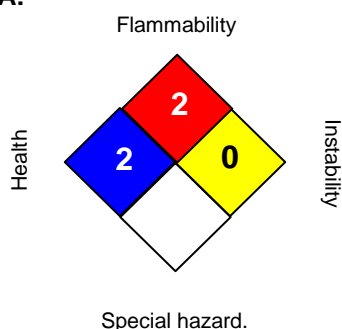
Octanal      124-13-0      10 - 20 %

**California Prop 65** : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>2</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 12-08-2015

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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